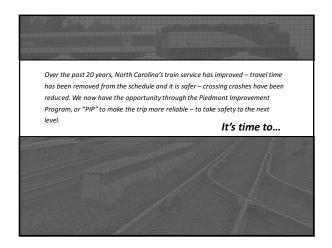


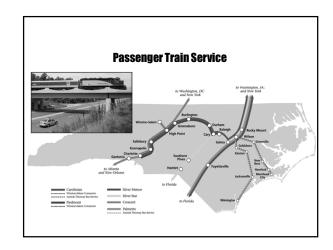
# **PIP My Ride**

North Carolina Department of Transportation Public Transportation Division 34th Community Transportation Conference January 8, 2014

Brian Speight, PE Senior Project Manager







# Piedmont Improvement Program – First, some history...

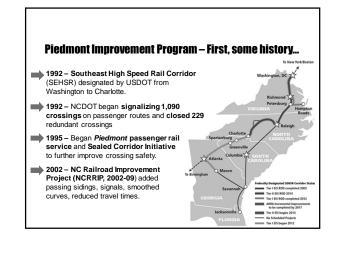


Gov. Martin speaks at inauguration of Carolinian service, May 25th, 1990

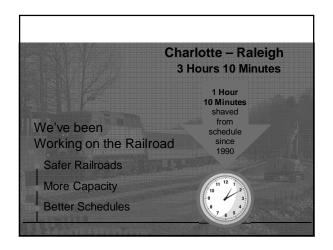
- Passenger Rail Task Force Created by Gov. James Martin, March, 1988 by Executive Order No. 71
- Charged with determining appropriate state response to longer-term rail passenger opportunities in NC

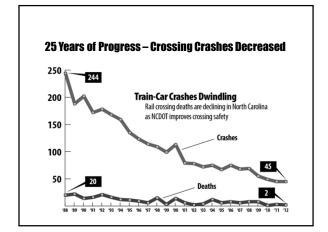
# → 1989 Recommendations

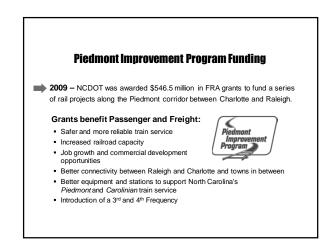
- Essential rail corridors be preserved for future rail passenger and freight transportation use
- NC should provide intercity rail passenger service in the Charlotte-Greensboro-Raleigh corridor
- 1990 Carolinian passenger rail service resumed after 5-year hiatus

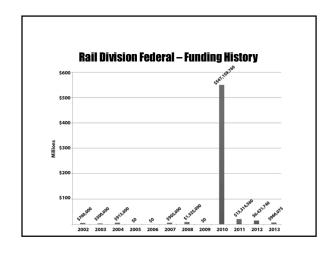


# Piedmont Improvement Program – First, some history... 2002 – present: 1 Train stations and multimodal centers refurbished/built statewide with FHWA Enhancement Funds and NCDOT Moving Ahead Funds 1 Piedmont fleet equipment upgraded and/or refurbished 1 Tracks/sidings upgraded for fewer delays and allow longer freight trains 1 Signals added/curves smoothed to allow higher speeds 1 Studies look at passenger service to Eastern and Western North Carolina 2010 – Demand increases, midday Piedmont service added









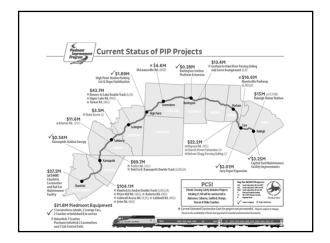


# **Piedmont Improvement Program Funding**

## **Grant Award by Component**

- Track & Structures 11 projects
   Station & Facilities 8 projects
   Equipment 4 projects
- Project Development & Administration
- Congestion Mitigation 4 projects



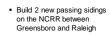




# **Track & Structures**

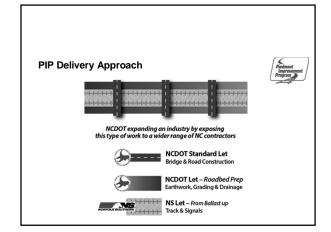
We must improve these lines to meet – and stay ahead of – growth demands forecast for North Carolina in the next 20 years.

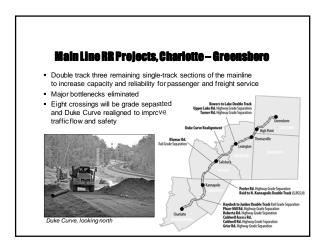
### Track and Structure Highlights





- Complete double tracking of NCRR between Charlotte and Greensboro – Widening the Railroad
- Track crossover improvements for efficiency
- Build 13 highway overpasses or underpasses of the railroad to separate auto and train traffic – safety and mobility
- Overpasses and underpasses replace up to 23 public at-grade crossings
- Freight and industry access retained or improved All Trains Use All Tracks





# Main Line RR Projects Underway, Charlotte – Greensboro

Upper Lake Road - Highway Grade Separation

Builds a bridge for highway traffic on Upper Lake Rd. to go over the railroad and eliminates the hazard of the railroad at-grade crossing





# Main Line RR Projects Underway, Charlotte – Greenshoro

Turner Road - Highway Grade Separation

 Builds a bridge for highway traffic on Turner Rd. to go over the railroad and eliminates the hazard of the railroad at-grade crossing





### Main Line RR Projects Underway. Charlotte — Greensboro

Klumac Road - Rail Grade Separation

- A bridge will replace the existing crossing of Klumac Road and the North Carolina Railroad/Norfolk Southern Railway tracks in Salisbury
- · Allows unimpeded traffic flow under the tracks at all times





# H-Line Projects, Greensboro — Raieigh

- Build two passing sidings along single track railroad to close 14-mile and 22-mile gaps with no passing location on the NCRR
- Build three grade separations and align a curve to improve safety, capacity and traffic flow





# H-Line Projects Underway, Greensboro — Raleigh

Hopson Road Grade Separation & Nelson to Clegg Passing Siding

 Builds a bridge to carry trains over Hopson Rd. and eliminates the hazard of the railroad at-grade crossing, eliminates a bottleneck caused by existing 14-mile stretch of single track and realigns curves





Graham to Haw River Passing Siding and Curve Realignment

 Eliminates a bottleneck caused by an existing 22-mile stretch of single track and train speed increase with curve realignment



# **Stations & Facilities**

North Carolina's Train Stations serve intercity rail passengers and help make regional and local public transportation connections. NCDOT has facilitated construction and/or restoration of 13 stations along passenger routes statewide.



stations, backup generators were installed at Burlington and Salisbury stations and one maintenance facility has been improved one newly constructed.

Security Systems have been installed at 8 stations and Passenger Information Display Systems are being designed.



### PIP Train Station improvements – Cary Amtrak Station

In Cary, train passengers had a small waiting room in a building occupied by NC DMV, who moved to a larger location. The building was enlarged and is now a bustling, full-service Amtrak Station and is served by Cary Transit.



# **PIP Train Station Improvements – High Point**

At the High Point Station, inadequate parking was a daily challenge. PIP funds stabilized the slope above the tracks, added 27 parking spaces and improved the grounds with landscaping. The project was completed in 2011.



The High Point Station is located across the tracks from the Hi-tran bus transfer center. PART Route 5-NC Amtrak Connector links the station with Winston-Salem

# **PIP Train Station Improvements – Burlington**

The Burlington Station Platform was extended 200 feet to allow passengers to board more safely and quickly. This PIP project was completed in 2011.





# PIP Train Station Improvements – Kannanolis

Kannapolis Station Canopy construction, completed in September 2013, provides shelter and a safer boarding area for train passengers.



Concord Kannapolis Area Transit's Rider Blue Route serves the Amtrak Station.

# **PIP Maintenance Facility Improvements**

Capital Yard Maintenance Facility in Raleigh was expanded. The improvements were completed in March 2012. The *Piedmont* fleet is serviced and maintained at this facility.



A new Charlotte Maintenance Facility is in design and property is being acquired. This will be used for layover and maintenance.



# Slide 29

scheduled for completion I think it all done

HM, 1/2/2014



# **Piedmont Equipment**

State-Sponsored Piedmont train service, which runs from Raleigh to Charlotte, was number one in the nation in growth within the Amtrak system for 2012.

The Carolinian is also posting increased ridership and revenue numbers.

# **The Piedmont Fleet**

- Our equipment model with input from NC General Assembly purchase good, used equipment and refurbish to like new
   Less than half the cost of new equipment no debt



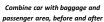
## The Piedmont Fleet

- PIP funding has refurbished five locomotives, two lounge cars and two
- The foliality are lectualistic more secondary, and burge can and two coaches now in daily *Piedmont* service
   Seven additional cars, 2 locomotives and 5 cab control units will be refurbished during the next 18 months





Coach interiors, before and after









Lounge car interiors with vending and seating areas, before and after









Coaches before refurbishment (left) and with refurbishment underway (right)











# **Challenges and Innovations**

- Huge Influx of money in very short amount of time
- Blazing new policy and procedural trails for FRA
- Scope defined by signed agreements with Railroads and FRA
- Capped ARRA Funding \$545.5M
- Initial and ongoing stakeholder concurrence/approvals
- Fixed End Date September 2017
- Utilization of Public and Private Resources to form the team and PM systems
- Assignment of Action Items
- Transparency
- Delivery Method



Freight-passenger partnerships are the key to success in improving NC's railroads

- Success through environment of trust
- Mutual benefits in joint planning and engineering
- Infrastructure and safety improvements good for all
- Funding partnerships essential





